

Scaled data based on original data using  
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

Brand: PORTFOLIO

Report Number: P747602

Luminaire Tested: LD4D40BD010-EU4DR3040509050-4LBSQW1MW

Issue Date: 1/30/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P747602  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-16)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/30/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LD4D40BD010-EU4DR3040509050-4LBSQW1MW  
Description: 4 INCH SQAURE DEEP 45° CUTOFF MATTE WHITE TRIM, WITH 30° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT  
Ballast/Driver: -

**Summary**

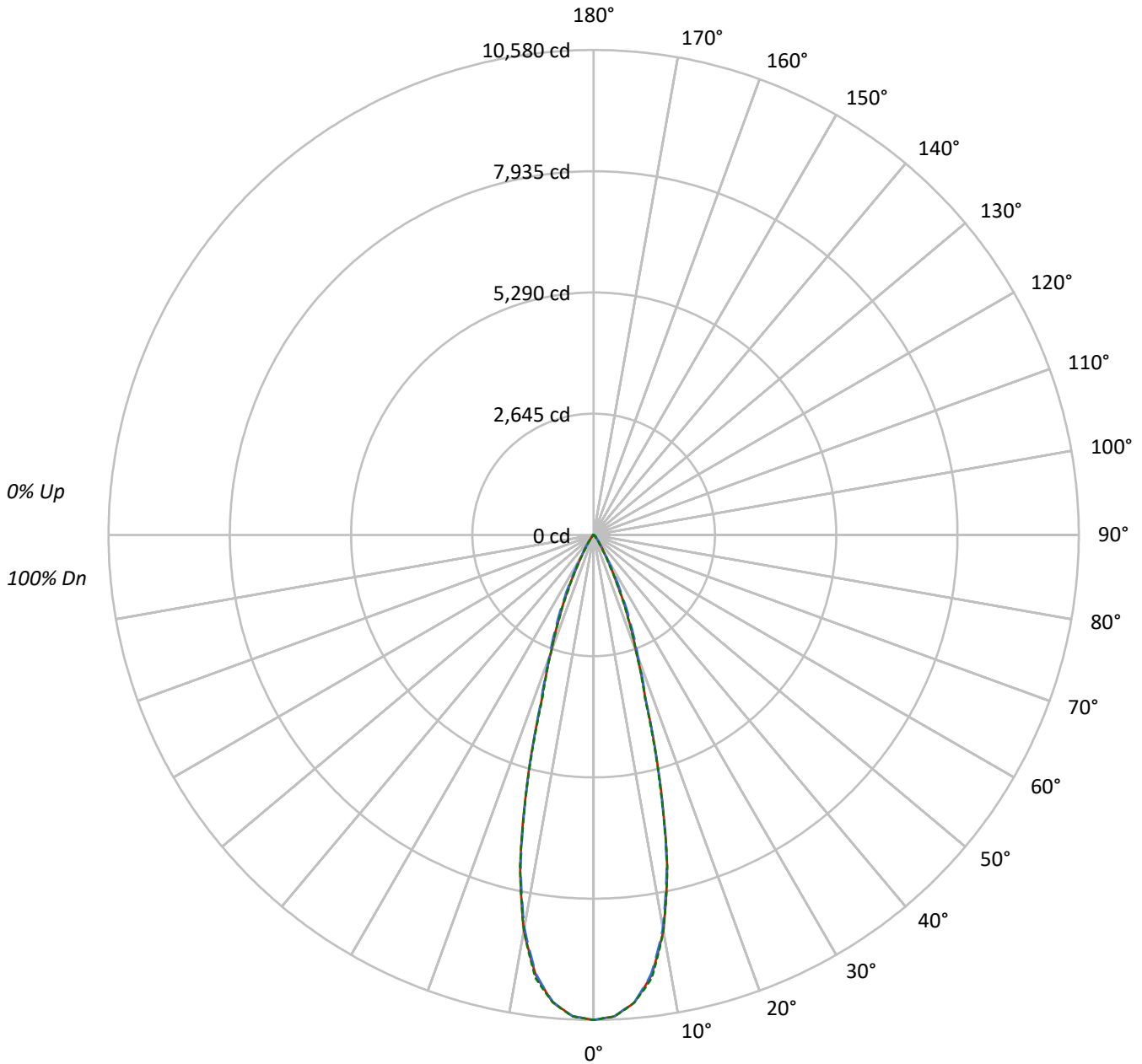
Lumens per Lamp: N/A  
Luminaire Lumens: 3290.4 lumens  
Efficiency: N/A  
Efficacy: 93.5 lumens/watt  
Spacing Criteria (0/90/45): 0.52 / 0.52 / 0.49  
Luminous Opening: Rectangular (W 0.38' x L: 0.38' x H: 0')  
CIE Type: Direct

Input Watts (W): 35.2  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20									20									20									20									
RC	80									50									30									10									0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0													
RCR																																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100																			
1	115	113	111	109	112	110	109	107	106	105	104	103	102	101	99	99	98	96																			
2	111	107	104	101	109	105	102	100	102	100	98	99	97	96	97	95	94	92																			
3	107	102	98	95	105	101	97	94	98	95	93	96	93	91	94	92	90	89																			
4	103	98	93	90	102	96	93	90	94	91	89	93	90	88	91	89	87	85																			
5	100	94	89	86	98	93	89	86	91	88	85	90	86	84	88	86	83	82																			
6	97	90	85	82	95	89	85	82	88	84	81	87	83	81	85	83	80	79																			
7	94	87	82	79	92	86	82	79	85	81	78	84	81	78	83	80	78	77																			
8	91	84	79	76	90	83	79	76	82	78	76	81	78	75	80	77	75	74																			
9	88	81	76	73	87	80	76	73	80	76	73	79	75	73	78	75	73	72																			
10	85	78	74	71	85	78	74	71	77	73	71	76	73	71	76	73	70	69																			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	809837	809837	809837
5°	786591	785677	786629
10°	681307	676504	681144
15°	444517	442131	439913
20°	221038	229331	220745
25°	111347	125561	109067
30°	44581	48576	38845
35°	20679	19800	16605
40°	8923	9912	8413
45°	6300	7816	6354
50°	2167	5692	2286
55°	1254	2362	1321
60°	873	1041	873
65°	561	561	561
70°	358	224	358
75°	0	148	0
80°	0	0	0
85°	0	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 22.5°  
 Vertical Angle: 45°  
 Luminance: 7816 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	930.4	28.3
10°-20°	1498.4	45.5
20°-30°	647.5	19.7
30°-40°	147.6	4.5
40°-50°	50.7	1.5
50°-60°	12.4	0.4
60°-70°	3.2	0.1
70°-80°	0.3	0.0
80°-90°	0.0	0.0
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	3076.2	93.5
0°-40°	3223.8	98.0
0°-60°	3286.8	99.9
0°-90°	3290.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3290.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	10580	10580	10580	10580	10580	
5°	10237	10227	10225	10247	10238	931
15°	5610	5542	5579	5561	5551	1502
25°	1318	1368	1487	1333	1291	631
35°	221	226	212	210	178	150
45°	58	72	72	72	59	41
55°	9	10	18	10	10	9
65°	3	3	3	3	3	3
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
90°	0	0	0	0	0	0



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	10580.1	10580.1	10580.1	10580.1	10580.1
2.5°	10510.0	10502.8	10506.9	10512.1	10514.2
5°	10237.3	10227.4	10225.4	10246.7	10237.8
7.5°	9687.2	9673.2	9651.9	9700.2	9745.4
10°	8765.7	8750.1	8703.9	8726.8	8763.6
12.5°	7405.3	7354.9	7353.8	7426.6	7416.7
15°	5609.5	5542.0	5579.4	5561.2	5551.4
17.5°	3772.2	3746.3	3796.1	3781.1	3716.1
20°	2713.6	2720.4	2815.4	2767.6	2710.0
22.5°	1980.1	2004.6	2117.3	1994.2	1949.0
25°	1318.4	1368.2	1486.7	1333.4	1291.4
27.5°	810.9	833.7	953.7	800.5	777.6
30°	504.4	493.0	549.6	471.7	439.5
32.5°	330.9	316.3	334.5	300.2	274.3
35°	221.3	226.0	211.9	210.4	177.7
37.5°	138.2	159.0	140.3	149.6	114.3
40°	89.3	115.3	99.2	109.6	84.2
42.5°	73.2	88.8	81.6	86.7	74.8
45°	58.2	72.2	72.2	72.2	58.7
47.5°	32.2	48.3	61.8	49.3	34.3
50°	18.2	24.4	47.8	25.5	19.2
52.5°	12.5	14.0	32.7	14.5	13.0
55°	9.4	9.9	17.7	10.4	9.9
57.5°	7.3	7.8	9.4	7.8	7.3
60°	5.7	5.7	6.8	6.2	5.7
62.5°	4.2	4.2	4.7	4.2	4.2
65°	3.1	3.1	3.1	3.1	3.1
67.5°	1.6	2.1	2.1	2.1	2.1
70°	1.6	1.0	1.0	1.0	1.6
72.5°	1.0	0.5	0.5	0.5	0.5
75°	0.0	0.0	0.5	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0

Signify Classified - Internal  
Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269

Scaled Data Report



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Scaled Data Report







— 0°-180°    - - 45°-225°    - - - - 90°-270°

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